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M/EB 309/64  
10 June 1964  
Copy 1

MEMORANDUM FOR: Chief, Ballistic Missiles and Space Division, OSI

ATTENTION:

THROUGH: Chief, Requirements Branch, Reconnaissance Group, CGS

FROM: Chief, CIA/PID (NPIC)

SUBJECT: Mensuration and Comparison of Soviet Missiles--SCUD A and  
Missile Shown in Sovetskiy Voin No. 3, 1964

REFERENCES: (a) Requirement C-SI-4-81,339  
(b) CIA/PID Project C 744-64

1. This memorandum is in response to your requirement dated 27 April 1964 requesting mensuration of the missile shown in Sovetskiy Voin No. 3, 1964 based on the dimensions of the SCUD A displayed in the recent Moscow parade.

2. Attached herewith is a line drawing with mensural analysis of the alleged Soviet Naval missile shown in Sovetskiy Voin No. 3, 1964. Mensural analysis was performed by TID/NPIC using a diameter of 2.85 feet of the SCUD A missile for ratioing. The results obtained should be considered only approximations since the given missile was not conducive to an accurate analysis due to poor imagery, extreme obliquity, and unknown camera data. The obliquity alone could account for foreshortening of the dimensions by as much as 20 percent, particularly in the nosecone section, even though this factor was taken into account in the analysis.

A brief result of the analysis is as follows:

SCUD A Comparison

Assumed Ratioing Data: 2.85 feet -- Diameter of SCUD A

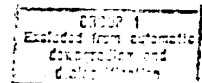
Results:	Overall length of missile	--	15.35 feet
	Diameter of missile	--	2.85 feet
	Nosecone length	--	3.50 feet or 2.57 feet
	Length of booster	--	2.20 feet

An accuracy statement of + 25 percent is given but this figure is somewhat arbitrary due to above mentioned factors. All possible steps were taken to insure maximum accuracy but because of the many unknown parameters involved, the degree of accuracy obtained is also unknown.

Reviewed by NGA.

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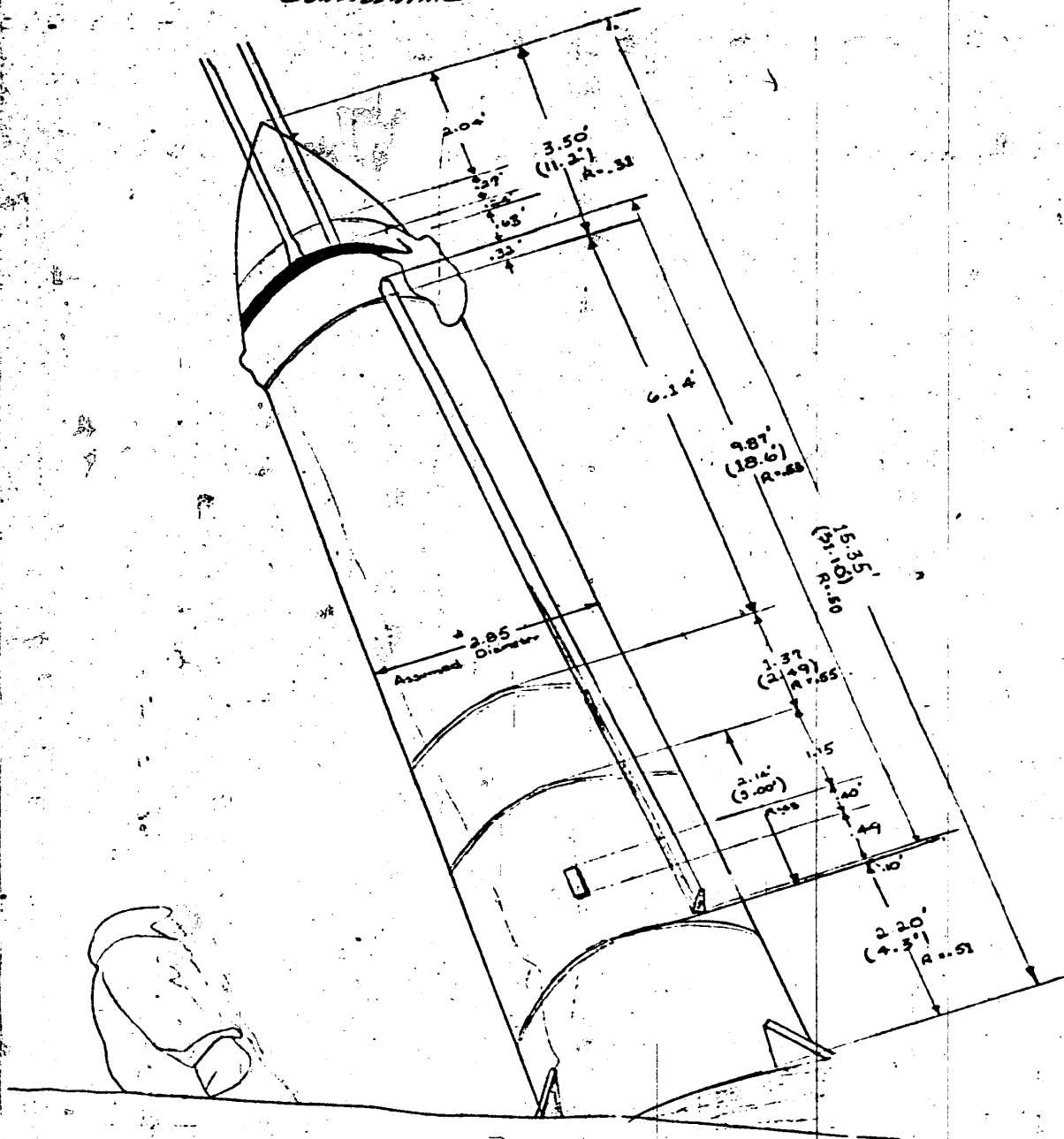
3. The photo analyst on this project is [redacted] who may be contacted on extension [redacted] should you have any further questions concerning this project.
4. This project is considered to be complete.

Enclosures:

- 1 - One line drawing [redacted]  
2 - One copy Sovetskiy Voin No. 3, 1964  
(submitted with requirement)  
3 - Two 5 by 8 photographs  
(submitted with requirement)

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Assumed Data: 2.85' Diameter

Note: All measurements based on above assumed data

Dimensions in ( ) are approximate, equivalent dimensions from Scud A

$R = \frac{\text{Missile}}{\text{Scud A}}$

Accuracy Statement: ±25% (see remarks)

Fin angles could not be accurately determined.

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